

Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool SOUTH LAMAR Formation PICTURED CLIFF County R. A.
Purchasing Pipeline EL PASO NATURAL GAS CO. Date Test Filed Nov. 6, 1957
Operator R & G DRILL CO. INC. Lease HANSEN Well No. 40
Unit 1 Sec. 26 Twp. 27N Rge. 8E Pay Zone: From 2160 To 2232
Casing: OD _____ WT. _____ Set At _____ Tubing: OD _____ WT. _____ T. Perf. _____
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .600 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured 3/14/57
Meter Run Size 4" Orifice Size 1.770 Type Chart SR Type Taps FLANGE

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.10) ² x sp. const. 900 = 232 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 232 psia (i)
Wellhead casing shut-in pressure (Dwt) 830 psig + 12 = 842 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 842 psia (l)
Flowing Temp. (Meter Run) 98 °F + 460 _____ = 558 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 421 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) =$ _____ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1734 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{531,723}{645,460} \times .8481 = 1471$ MCF/day.

SUMMARY

P_c = 842 psia
Q = 1734 Mcf/day
P_w = 232 psia
P_d = 421 psia
D = 1490 1471 Mcf/day

Company GasLectra, Inc
By B H Kavan
Title Asst
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column 1)	P _t ² + R ²	P _w



